

which may be required to Acct. No. 11-0224. Applicants further respectfully request that this response be accepted as a bona fide effort to meet any potential response requirements outstanding and due in the above captioned matter.

Please amend the application as follows: IN THE CLAIMS:

**MARKED-UP COPY OF THE AMENDED CLAIMS**

**(Version with marking to show changes made)**

1. (original) Method for monitoring the region (1,7) of technical rolling bodies (7), in particular their support (1) such as rails of the wheel rail systems or bearings, by employing of converters (2,3,4,8) which are disposed at the support (1) or at the rolling bodies (7), which converters (2,3,4,8) capture forces occurring in the support (1) or at the rolling body (7), wherein the converters (2,3,4,8) generate electrical pulses and signalize the

*Cl  
Cont.*

electrical pulses to an electrical control and evaluation station (6), wherein changes in state of the monitored region, such as material damages or separating damages, are detected by way of the electrical pulses, characterized in that at least one of the electrical converters (2,3,4,8) disposed at the support (1) in the monitored region (1,7) of the technical rolling body (7) or at least at the technical rolling body (7) is subjected actively with electrical energy (5a,9) and thereby the converter (2,3,4,8) feeds evaluable pulses (5a', 5b, 5c') into the support (1) or the rolling body (7), which pulses (5a', 5b, 5c') are captured by at least one of the converters (2,3,4,8), wherein pulses (5a', 5b, 5c') in turn are emitted by at least one of the converters (2,3,4,8), which pulses are captured by the control and evaluation device (6) as evaluable pulses (5c, 9'), and whereby the region (1,7) of the technical rolling bodies (7) is monitored at any time relative to changes in state.

*C1  
COKT.*

2. (original) Method according to claim 1, characterized in that the converter (2,3,4,8) corresponds wireless with the control and evaluation station (6), for example by radio transmission technology.
3. (original) Method according to claim 1 or 2, characterized in that the converters (2,3,4,8) are such, which feed either mechanical or electromagnetic waves into the support (1).
4. (previously presented) Method according to claim 1, characterized in that the converters (2,3,4,8) operating as pulse emitters are supplied with electrical energy by the electrical control and evaluation station (6).
5. (original) Device for monitoring the region (1,7) of technical rolling bodies (7), in particular their supports (1) such as rails of a wheel rail system or bearings, with converters (2,3,4,8),

wherein the converters are disposed at the support (1) or at the rolling body (7), and wherein the converters (2,3,4,8) capture forces occurring in the support (1) or at the rolling body (7), wherein the converters (2,3,4,8) generate electrical pulses and signalize these electrical pulses to an electrical control and evaluation station (6), wherein changes of state of the monitored region, such as material damages and separation damages, are detected with the control and evaluation station (6), characterized in that at least one of the converters (2,3,4,8) disposed at the support (1) in the monitored region (1,7) of the technical rolling body (7) or at least one of the converters (2,3,4,8) disposed at the rolling body (7) actively is subjectable to electrical energy (5a,9) and thereby feeds evaluable pulses (5a', 5b, 5c') into the support (1) as a pulse emitter, which pulses (5a', 5b, 5c') are capturable by at least one of the converters (2,3,4,8) as a pulse receiver and are signalizable from there as electrical pulses (5c, 9') to the control and evaluation station (6).

6. (original) Device according to claim 5, characterized in that the radio transmission technology device is coordinated to at least one of the converters (2,3,4,8), wherein the radio transmission technology device corresponds wireless with the control and evaluation station (6).

7. (original) Device according to claim 5 or 6, characterized in that the converters (2,3,4,8) are of such kind that they are capable of either introducing mechanical or electromagnetic waves into the support (1).

*Cl  
Cont.*

8. (previously presented) Device according to claim 7, characterized in that the electrical control and evaluation station (6) supplies the converters (2,3,4,8) operating as pulse emitters with electrical energy.

9. (previously presented) Device according to claim 8, characterized in that the support is a rail (1) and the technical rolling body is a vehicle wheel (7), wherein converters (2,3,4,8) are disposed at the rail and at the vehicle wheel (7) as pulse emitters, wherein the converters (2,3,4,8) generate pulses at the support (1), which pulses are received by the converters (2,3,4,8) as pulse receivers and are transmitted and again received from the converters (8) disposed at the vehicle wheel (7) and are further guided to the control and evaluation station (6).

*Cl  
Cont.*

10. (previously presented) Device according to claim 8, characterized in that the support is a rail (1) and the technical rolling body is a vehicle wheel (7), wherein converters (8) are disposed at the vehicle wheel (7) as pulse emitters, which converters generate pulses at the vehicle wheel (7), which pulses are received by the converters (8) disposed at the vehicle wheel (7)

and are transmitted and are further guided to the control and evaluation station (6).

11. (previously presented) Device according to claim 9, characterized in that the control and evaluation station (6) is supported by the vehicle wheel (7).

12. (previously presented) A method for monitoring comprising the steps of:

employing converters (2,3,4,8);

disposing the converters (2,3,4, 8) at the support (1) or at the rolling bodies (7);

capturing forces occurring in the support (1) or at the rolling body (7) with the converters (2,3,4, 8);

generating electrical pulses in the converters (2,3,4, 8);

subjecting actively at least one of the electrical converters (2,3,4,8)

disposed at the support (1) in the monitored region (1,7) of the

technical rolling body (7) or at least at the technical rolling body (7) with electrical energy (5a,9);  
signalizing electrical pulses from the converters (2,3,4, 8) to an electrical control and evaluation station (6);  
detecting changes in state of the monitored region including material damages or separating damages by way of the electrical pulses;  
feeding evaluable pulses (5a', 5b, 5c') from the converter (2, 3, 4, 8) into the support (1) or the rolling body (7), which pulses (5a', 5b, 5c') are captured by at least one of the converters (2,3,4,8), wherein pulses (5a', 5b, 5c') in turn are emitted by at least one of the converters (2,3,4,8);  
capturing the pulses (5a', 5b, 5c') by the control and evaluation device (6) as evaluable pulses (5c, 9') for monitoring the region (1,7) of the technical rolling bodies (7) at any time relative to changes in state.

C1  
Cont.

Monitoring the region (1, 7) of the technical rolling bodies (7) in connection with rails of a wheel rail system or of a bearing.

*cl  
contd.*

13. (new) The method according to claim 12 further comprising

transmitting by wireless radio transmission between the converter (2,3,4,8) and the control and evaluation station (6).

#### **REMARKS**

Claims 1 through 12 continue to be in the case.

New claim 13 is being introduced.

New claim 13 is based on the language of claim 2.

The Office Action Summary refers under point 13 to acknowledgement of Applicant's claim for foreign priority.

No acknowledgement of applicant's claim is made on page 3 of 5 relative to German Application number 198 09 970.3 filed March 5, 1998.

Applicant further submits that in addition the priority document has been transmitted or submitted to the United States Patent and Trademark Office from WIPO. This transmittal or submittal can be confirmed by a letter from Dorothée Mülhausen of WIPO to MIERSWA, Klaus, who is the applicant's European Representative Dated June 14, 1999 and reporting the transmittal of the priority document to the United States Patent and Trademark Office.

A copy of the cited letter from Dorothée Mülhausen of WIPO to MIERSWA, Klaus is attached to this amendment.

Applicant respectfully requests that his claim for priority be granted and that the request for priority has also been completed based on the transmission of the German priority document to the United States Patent and Trademark Office. Acknowledgement of receipt of the Certified Copy of the German priority document is respectfully requested.

Reconsideration of all outstanding rejections is respectfully requested.

All claims as presently submitted are deemed to be in form  
for allowance and an early notice of allowance is earnestly  
solicited.

Respectfully submitted,

Klaus-Jurgen Nord

By:



Horst M. Kasper, his attorney  
13 Forest Drive, Warren, N.J. 07059  
Telephone: (908)757-2839  
Telefax: (908)668-5262  
Reg.No.28559; Docket No.: MSA239

/rep/am